

**IN THE CLAIMS**

Please cancel claim 1.

Please add claims 2-12 as follows.

- 1        2. A method for monitoring an event within a hardware description language (HDL) model,  
2        said method comprising:

3            generating an HDL simulation model;

4            specifying an event within said HDL simulation model as an output port of an  
5            instrumentation entity;

6            delivering an event monitor request within said HDL simulation model; and

7            retrieving said event from said instrumentation entity in response to said event monitor  
8            request.

1        3. The method of claim 2, further comprising utilizing input port map comments to generate  
2        a connection to said event from within said HDL simulation model.

1        4. The method of claim 2, further comprising utilizing entity declaration within an HDL  
2        source code file to generate and uniquely name said event.

1       5.     The method of claim 2, wherein an application program interface (API) retrieves said  
2     event from said instrumentation entity in response to said event monitor request from said  
3     simulator controller, said method further comprising uniquely naming said event within an event  
4     translation table, wherein said API retrieves said unique name from said event translation table in  
5     response to said event monitor request from said simulation controller.

1       6.     The method of claim 5, further comprising constructing said event translation table from  
2     said entity declaration comments during a model build process.

1       7. A system for monitoring an event within a hardware description language (HDL) model,  
2       said system comprising:

3               a simulator that simulates said HDL model;

4               a simulator controller that delivers an event monitor request within said HDL simulation  
5       model;

6               an instrumentation entity that generates an event within said HDL model; and

7               an application program interface (API) that retrieves said event from said instrumentation  
8       entity in response to said event monitor request from said simulator controller.

9.       The system of claim 7, wherein said simulator controller is a run time executive that calls  
10      an application program from said API.

11      The system of claim 7, wherein said instrumentation entity is produced by an HDL source  
12      code file comprising input port map comments that generate a connection to said event from  
13      within said HDL simulation model.

14      The system of claim 9, wherein said HDL source code file further comprises entity  
15      declaration comments that generate and uniquely name said event.

16      The system of claim 10, further comprising an event translation table that associates a  
17      unique name with said event, wherein said API retrieves said unique name from said event  
18      translation table in response to said event monitor request from said simulation controller.

19      The system of claim 11, further comprising an instrumentation load tool for constructing  
20      said event translation table from said entity declaration comments during a model build process.